

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
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1/10

Q M G F A E N Q L S L E L I R E W I K N 60
CAGATGGGGTTTGGGAGAACCAAGCTTCGCTGGAGTTAATACGTGAGTGGATCAAGAAT
H P E A S I C S A E G L P Q F M E I A N 120
CACCCGAGGCCCTCCATTGCTCGCGGAGGGCCTGCCGAGTTCATGAGATCGCCAAT
F Q D Y H G L P A F L Q G I A K L M E K 180
TTCCAAGACTACCATGGCTTGCCGGCTTTTCTGCAGGGAATCGGAAATTGATGGAGAAA
V R G G R V K F D P N R V V M S G G T 240
GTGAGAGGAGGAAGGTCAAATTCGATCCGAACCGGTGGTGATGAGCGCGGAGGCAC
G A Q E T L A F C L A D P G D A F L V P 300
GGAGCGCAAGAACGCTCGCGTTTGTCTCGCTGACCCCTGGGAGCGCCTTCCTCGTCCCA
T P Y Y P A F N R D L R W R T G V E L L 360
ACTCCGTACTATCCAGCATTAAATCGCGATCTCCGGTGGAGAACGGCGTTCGAGCTCCTC
P V H C K S S N H F R V T K T A L E S A 420
CCGGTTCACTGCAAGAGCTCTAATCACTTCAGAGTCACCAAAACGGCGCTAGAATCGGCA
Y E K A R K D N I R V K G V L I T N P S 480
TACGAGAGGCGGAAGGATAACATCAGAGTAAAGGAGTACTGATAACCAACCCATCC
N P L G T T M D K H T L Q T L V K F V N 540
AACCCGCTCGGCACGACCATGGATAAACACACAGCTACAGACCCCTCGTGAAATTCGTAAAC

FIG. 1A.

APPROVED	O G. FIG.	
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2/10

005260" 94169960

E R R I H L V C D E L Y G A T I F R E P 600
 GAAAGGAGAATCCACCTAGTCTGCGACGAGTTATACGGCGCAACCATCTTTAGGGAGCCC
 R F V S I S E V I E E D P N C D K N L I 660
 AGGTTGTCAGCATCTCCGAGGTAATAGAAGAGGACCCGAACCTCGACAAGAATCTGATC
 H I A Y S L S K D F G L P G F R V G I V 720
 CACATTGCGTACAGTCTCTCAAAGGACTTCGGTCTCCCGGATTCGAGTCGGGATCGTG
 Y S Y N D T V V S C A R R M S S F G L V 780
 TATTCTACAACGACACGGTGGTTAGTTGCCGACGCAGAATGTCGAGCTTCGGCCTCGTC
 S S Q T Q Y L L A A M L S G E E F L P T 840
 TCGTCGACAGACAGTACTTGGCCGCTATCCGCGAAGAATTTTCCCAACA
 L L T E S A K S L S E S H R I F S S G L 900
 TTA CTGACTGAAAGCGGAAGAGTCTGTGCGAGAGCCACAGGATCTTCTTCCGGCCTT
 E E V D I R C L D G N A G V F C W M D L 960
 GAGGAAGTCGACATCCGCTGCTTGGACGGCAATGCCGGGGTCTTCTGCTGGATGGACCTA
 R H L L K E A T E D G E L E L W R V I V 1020
 CGGCACCTCCTCAAAGAAGCCACCGAAGACGGCGAGCTCGAGCTGTGGCGCGTATAGTG
 N N V K L N V S P G S S F Y C A E P G W 1080
 AACAAATGTCAAGCTCAATGTGTCCCCCGGTTCTGTCGTTTATTGCGCCGAGCCAGGTTGG

FIG. 1B.

APPROVED	O. G. FIG.	
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3/10

Q M G L A E N Q L C F N L I H E W P L K
 CAGATGGCCCTTGCTGAGAATCAGCTTTGCTTTAATTAATTCACGAGTGGCCGCTGAAA 60

 N P E A S I C T T Q G A A E F R D I A I
 AACCAGAAGCCTCCATTGTACAACAAGGAGCAGCTGAATTCAGAGATATAGCTATC 120

 F Q D Y H G L A E F R E A V A K F M G K
 TTCAAGATTATCATGGCTGGCTGAATTCAGAGAGGCTGTGCAAAAGTTATGGGAAA 180

 V R R N R A S F D P D R I V M S G G A T
 GTGAGAAGAAACAGAGCTTCATTGACCCCTGATCGGATGTTATGAGTGGAGGAGCAACT 240

 G A H E M I G F C L A D P G D A F L V P
 GGAGCTCATGAATGATTGGTTTCTGTGCTGATCCTGGCGATGCATTTCTGGTTCCA 300

 T P Y Y P G F D R D L R W R T G V K L I
 ACTCCTTATTATCCAGGGTTTGATAGAGATTTGAGATGGAGAACGGGAGTCAAACTCATT 360

 P V V C E S S N D Y Q I T I E A L E A A
 CCAGTTGTGTGAAAGCTCAAACGATTACCAGATCACCATAGAACCCCTGGAAGCTGCT 420

 Y E T A Q E A D I K V K G L V I T N P S
 TATGAAACCGCACAGAAGCTGACATCAAGGTAAAGGTTTGGTCATAACCAACCCATCA 480

 N P L G T I I T K D T L E A L V T F T N
 AACCCTGGGAACAATTATTACCAAGGACACATTAGAAGCTCTAGTCACCTTCACCAAC 540

FIG. 2A.

APPROVED	O G. FIG.	
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4/10

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H K N I H L V C D E I Y A G Y R L Q P R
CACAAGAACATTCTGGTGTGATGAGATATATGCTGGTTACCGTCTTCAGCCCAGG 600

A E F T S I A E I I E E D K I C C N R D
GCCGAATTCACCAGCATAGCCGAGATAATTGAAGAAGATAAAATTTGTTGCAATCGTGAT 660

L I H I I Y S L S K D M G F P G F R V G
CTCATCCACATATTACAGTTTATCCCAAGACATGGGATTCCTGGATTAGAGTTGGC 720

I V Y S Y N D A V V S C A R K M S S F G
ATTGTGATTCATACAAATGATGCAGTGGTGAGTTGTGCTCGTAAGATGTCGAGCTTCGGC 780

L V S S Q T Q Y L I A S M L A D D E F V
CTAGTATCTTCGCAACCCAGTATCTGATTGCTGATCCATGTTAGCAGACCATGAATTTGTA 840

D K F I V E S R K R L A M R H S F F T Q
GACAAATTTATTGTAGAGAGCAGAAAGAGGCTGGCAATGAGACATAGTTTTTTCACACAA 900

R L A Q V G I N C L K S N A G L F V W M
AGACTTGCTCAAGTAGGCATTAACTGTTTAAAGCAATGCTGGTCTTTTGTGTGGATG 960

D L R R L L K E Q T F E A E M V L W R V
GATTTGCGTAGACTGCTGAAAGAACAGACATTTGAAGCAGAAATGGTGTATGGAGAGTA 1020

I I N E M K L N V S P G S S F H C S E P
ATTATAACGAAATGAAACTCAATGTATCTCCTGGTTCGTTCTTCCACTGCTCAGAACCT 1080

G W F S V C F A
GGCTGGTTCAGCGTCTGCTCGCT 1104

FIG. 2B.

APPROVED	O G. FIG.	
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5/10

Q M G F A E N Q L C F D L I E K W V K K 60
CAGATGGGTTTGTGTAATAATCAGCTTTGCTTTGATTGATCGAGAAGTGGTTAAAAAG
N P N A S I C T A E G V E N F K H I A N 120
AATCCCAATGCTTCCATCTGCACAGCTGAAGGGTTGAAAACCTTCAAGCACATAGCCAAC
F Q D Y H G L K E F R Q E V A K L M G K 180
TTCCAAGACTATCATGGCCTGAAAGAATTAGACAGGAAGTTGCCAAGTTAATGGGGAAG
A R G G R V T F D P E R I V M S G G A T 240
GCAAGAGGGGCAGAGTGACGTTGACCCAGAGCGTATTGTGATGAGCGGGGAGCGACA
G A S E T I M F C L A D P G D A L L V P 300
GGCGCCAGGAGACGATTATGTTTGTGCTGGCGGATCCAGGCGATGCTCTTCTGTTCCC
T P Y Y P G F N R D L R W R T G V Q I I 360
ACTCCTTACTATCCTGGATTCAATAGGACCTGAGATGGCGAACCGGCTCCAGATTATT
P V Q C S S S H N F T V T R E A V E A A 420
CCCGTGCAATGCAGCAGCTCACACAATTTTACAGTAACACGGGAAGCCGTAGAGGCTGCG
Y Q K A Q E A N I N V T G L I I T N P S 480
TACCAGAAAGCTCAAGAAGCCAAACATCAATGTACAGGCTTGATCATCACCAACCCCTCG
N P L G T T L D S Q T L Q S L V I F V N 540
AATCCGCTAGGCACCACCTTAGACTCACAACACTCCAGAGCTTGGTCATCTTCGTCAAC

FIG. 3A.

APPROVED	O G. FIG.	
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6/10

D K T I H L V C D E I Y A A T V F S S P 600
GACAAGACCATCCACCTGGTCTGCGACGAAATCTATGCCGCCACCGTCTCAGCTCCCCG
E F V S I G E I I Q E M D V N R D L I H 660
GAGTTCGTCAGCATCGGGAGATCATCCAAGAAATGGACGTCAACCGCGACCTTATCCAC
I I Y S L S K D M G L P G F R V G I V Y 720
ATCATCTACAGCTTGTCCAAAGATATGGGTCTCCCCGGTTCCGGGTAGGTATGTGTAT
S Y N D G V L S C G R R M S S F G L V S 780
TCCTACAACGACGGTGTATTAAAGCTGCGGCGCGGATGTCGAGCTTTGGGTGGTCTCG
S Q T Q Y F L A T L L S D D E F V D Y F 840
TCACAGACTCAATATTTCTCTGGCGACACTGCTGTCCGACGACGAGTTCGTCGATTACTTC
L R E S S K R L A R R H H K L T R G L E 900
CTCCGGAAAGCTCGAAGAGGCTGGCGAGAAGACACCATAACTCACCAGAGGGCTGGAG
Q V G I K C L K S N A G L F V W M D L R 960
CAAGTGGGATAAAGTGCTTGAAAAGCAATGCCGGACTTTTGTGTGGATGGACCTGCGG
R L L E G P T S F D A E M K L W R T I V 1020
AGGCTCCTGGAAGGTCCAACGTGTTTGATGCAGAAATGAAGCTGTGGCGGACCATCGTC
N D V K L N V S P G S S F H V A E P G W 1080
AACGACGTGAAGCTGAACGTGTCGCCGGGATCTTCGTTCCACGTGGCGGAGCCGGGTGG

F R V C F A 1098
TTCAGAGTATGTTTCGCT

FIG. 3B.

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
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7/10

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Q M G L A E N Q L C F D L I E D W I R K
CAGATGGGCCTTGGCGAGATCAGCTTTGCTTTGATTGATCGAAGACTGGATTGCGCAA 60
N P Y A S I C T A E G V D E F K E I A N
AATCCCTATGCCCTCCATTTGTACTGCTGAAGGAGTTGATGAGTTCAAGGAGATTGCAAAC 120
F Q D Y H G L P E F R K A V A K F M G K
TTTCAAGATTATCATGGCTTGCCAGAGTTTAGAAAGGCTGTGGCAAAGTTTATGGGAAAA 180
V R G G R V T F D P D R I V M G G V T
GTGAGAGGTGGAAGAGTAACATTTGATCCAGACCGTATAGTCATGGCGGTGGAGTTACA 240
G A N E Q I I F C L A D P G D A F L V P
GGCGAAACGAGCAATCATCTTCTGTTAGCCGACCTGGCGATGCTTTCTTGTGTTCCC 300
S P Y Y P A F D R D L G W R T G G E I V
TCACCTTATTATCCAGCATTTGACCGGGACCTGGGATGGCGCACTGGAGTGAAATAGTT 360
P V P C D S S T N F Q I T R D A L E E A
CCTGTTCCCTGTGACAGCTCAACCAATTTCCAGATAACCAGAGATGCATTGGAAGAAGCA 420
Y E K A R E A N I N I K G L I I T N P S
TATGAAAAAGCTCGAGAAGCCACATTAAATATTAAAGGCTTGATCATAACAACCCCTTCA 480
N P L G I T L D R D T L K S L V S F I D
AACCACCTTGGCATCACCTTAGACAGAGATACTCTTAAAGCCTAGTGAGCTTCATCGAT 540

FIG. 4A.

APPROVED	O G. FIG.	
By	CLASS	SUBCLASS
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8/10

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E K N I H F V C D E I Y A A T L F C P P
GAAAGAACATTCACTTTGCTGCGATGAATCTATGCTGCCACTCTCTTCTGTCCACCC 600

K F V S V A E V I Q E M D C N L D L I H
AAGTTGTAAGCGTCGCTGAAGTGATCCAAGAAATGGACTGTAATCTTGATCTCATCCAC 660

I V Y S L S K D M G L P G F R V G I V Y
ATTGTTACAGTTTGTCTAAGGACATGGGCCTCCCTGGCTTTAGGGTTGGCATTTGTTAT 720

S Y N D A V V S C I R K M S S F G L V S
TCTTATAATGATGCAGTTGTGAGTTGTATCCGCAAGATGTCAAGCTTCGGTTTGGTATCC 780

S Q T Q Y L L A S M L S D D E F V E K F
TCACAACTCAATATTTACTCGCTTCAATGCTTTCTGATGATGAATTTGTGAAAAGTTT 840

L A E S S K R L A K R Y H I F T K R L E
CTAGCGAAAGCTCAAAGAGGCTGGCAAAAAGGTACCATATTTTCACAAAGAGACTTGAG 900

K V G I N C L K G N A G L F F W M D L R
AAAGTGGGATTAAGTCTTGAAGGGAATGCAGGTCTTTTCTCTGGATGGATTTGCCGA 960

H L L Q Q E T V D A E M K L W G T I L N
CACCTCCTTCAACAAGAAACAGTTGATGCCGAAATGAAGCTATGGGACCGATTTTGAAC 1020

D V K L N V S P G S S F H C Q E P G W F
GATGTGAAACTTAACGTTTCACCAGGCTCTTCTTTCATTCAGGAGCCTGGTTGGTTC 1080

R V C F A
AGAGTCTGCTTCGCTG 1096

FIG. 4B.

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
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9/10

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Q M G F G E N L L C F D L V Q E W V L S 60
CAGATGGGATTGGGAAATCTGCTTTGCTTTGATTAGTTCAAGAATGGTCTTAAGC
N P E A S I C T A E G I S D F R D I A I 120
AACCAGAGCCTCTATCTGCACTGCCGAAGGTATAAGTGATTTCAGAGATATCGCTATC
F Q D Y H G L P E F R N A V A N F M A R 180
TTTCAGGATTATCACGGCTTGCCAGAGTTCAGAAATGCTGTGCAATTTTATGGCAAGA
V R G N R V K Y D P D R I V M S G G A T 240
GTGAGAGGGAATAGAGTCAAATACGACCTGATCGAATTGTTATGAGCGGTGGAGCAACC
G A H E T V A F C L A D P G E A F L G A 300
GGAGCACATGAGACGGTTGCCCTTTGTTGGCTGATCCCGTGAAGCATTTTGGGTGCC
T P Y Y P G F G R D L R W R T G V Q L F 360
ACTCCTTACTATCCAGGATTGGTCGAGATTGAGATGGAGAACAGGAGTTCAACTTTT
P V V C D S S N N F K I T R E A V E A A 420
CCAGTTGTGTGACAGTTCTAACAAATTTCAAGATTACAAGAGAAGCCGTGGAAGCAGCA
Y E K A Q E D H I R I K G L V L T N P S 480
TATGAAAAGCTCAAGAAGACCACATCAGAATCAAGGTTTGGTCCTCACAATCCATCG
N P L G T C L D R E T L R S L V S F I N 540
AACCCGCTGGGACTTGTGACAGAGAAACACTAAGAAGTTTAGTAAGCTTCATTAAT

FIG. 5A.

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

10/10

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E K N I H L V C D E I Y A A T I F M G Q	600
GAAAAGAACATCCACTTAGTCTGGACGAGATTTATGCTGCCACAATCTTCATGGGCCAG	
P D F I S I S E I I E E D I H C N R N L	660
CCCGATTTCATTAGCATCTCTGAAATTATAGAAGAAGATATTCACCTGCAATCGCAATCTC	
I H L V Y S L S K D L G F P G F R V G I	720
ATCCACCTTGTTTACAGTCTTCAAGGATCTGGGGTCCAGGCTTTAGGGTCGGCATI	
I Y S Y N D T V V S C A C K M S S F G L	780
ATATACTCATAACAACGATACAGTTGTGAGTTGGCCCTGCAAAATGTCAAGCTTTGGACTT	
V S S Q T Q H L I A S M L S D D E F V D	840
GTATCATCAAAAACCTCAACATTTAATCGCTTCAATGTTATCAGATGATGAATTTGTGGAT	
R F I T E S A K R L A K R H R A F T W G	900
AGGTTCACTAGAGAGTGCTAAAAGGCTTGCAAAAAGGCACAGAGCCTTCACATGGGGG	
L S Q V G I G C L K S N A G L F F W M D	960
CTATCTCAAGTAGGCATTGGTTGTTTGAAGAGCAATCGGGGCTATTTTCTGGATGGAT	
L H H L L K E Q T D E A E I E L W K V I	1020
TTGCATCATCTCCTCAAGGAGCAAACTGATGAAGCAGAGATAGAAGTGTGGAAGTGATA	
I N E V K L N V S P G S S F H C A N P G	1080
ATCAACGAAGTTAAATTAATGTTTCTCCGGGTTCTTCTTTCATTGCGCTAATCCAGGA	
W F R V C F A N M D E	
TGGTTTCGGGTTTGTTCGCCAACATGGACGAA	1113

FIG. 5B.